De	eclassified in Part - Sanitized Copy Approved for
	ease 2012/09/13 : INSMITTAL SLIP
λIC	-RDP78-03535A000500050014-5
	11/4 X1/8 X 3/8 augster.
	TP: 7+nows
	BUILDING Quais Cathole
	REMARKS:
	STAT
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	11/16 wide x 3 " long
	3/8" thick W/fittings filter for batt source
	w/fittings
	filter for batt source
	and batt.
	-40°C +60°C
	FROM: Crook noise figure
\square_{4}	eclassified in Part - Sanitized Cony Approved for

Release 2012/09/13: dual systematic review. CIA-RDP78-03535A000500050014-5

27 Feb 1956

VIDEO AMPLIFIER - KONXEKSEKIONXWITH

1. Measurement of Transistor Bandwidth:

Capacitance in the load of a transistor is reflected into the input multiplied by beta. This means that the shielded cable input to a techtronix could have a capacitance of large enough that when it is multiplied by beta (at the input) khat the bandwidth is seriously restricted.

The way to avoid this would be to use the probe of the techtronix.

2. Improvement of Bandwidth:

Peaking coils are easiest to install and adjust.

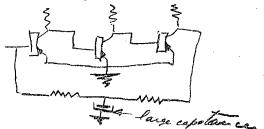
Improvement can also be obtained by using an unbipassed degenerative resistor in a common emitter lead of two stages, one stage apart. This might be of the order of ten ohms.



3. Bias Stabilization:

A resistive, dc feedback path from output to input is necessary to stabilize the bias in the direct coupled circuit.

this also gives some degree of temperature stabilization.



4. Temperature Stabilization:

Low temperature performance of the direct coupled job is pretty good.

At high temperature the input impedence decreases, decreasing the gam. This effect can be minimized by increasing the value of the collector to supply resistance.

This document is part of an integrated file. It separated from the file it must be subjected to individual systematic review.

5. Input Impedence:

It is about 2000 ohms resistive and 250 mmf at lmc. The resistance increases and the capacitance decreases at lower frequencies - it is believed.

6. Tips for Soldering:

Low heat (25 watt) G.E. soldering iron. Isolate soldering iron from line. Use heat sink.

7. Pulse stretcher:

The pulse stretcher will put a capacitance across the output and thus will restrict the bandwidth. Some means must be used to isolate this capacity. (grounded collector, pulse transformer 1/1/1919)

Conversation with

A0-5

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